TOBACCO INDUSTRY RESEARCH COMMITTEE
350 FIFTH AVENUE NEW YORK 1, N. Y.

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Looks good. method of smoking not covered.

Application For Research Grant

Date: ~~January 7, 1955~~

1. Name of Investigator: Joseph F. Volker, D.D.S., Ph.D
Joseph P. Lazansky, M.D., D.M.D.

2. Title: Dean and Associate Dean

3. Institution & Address: University of Alabama School of Dentistry
Medical Center
Birmingham, Alabama

4. Project or Subject: The Effects of Tobacco on Selected Oral Structures

5. Detailed Plan of Procedure (Use reverse side if additional space is needed):

In 1953, the American public spent over one billion dollars for the prevention and treatment of oral disease. The expenditure of the majority of these funds resulted from the almost universal occurrence of dental caries and periodontal disease. In addition to these two major diseases, the mouth is the site of approximately 4% of all malignant growths and oral manifestations of systemic disease are frequent findings. Unfortunately, the factors associated with the initiation, modification and prevention of oral disease states are little understood. Although it is questionable that the use of tobacco may modify oral disease, such a possibility should be investigated, especially since the mouth has contact with tobacco in smoke, juice, and solid form in higher concentration than any other part of the human organism. Accordingly, we would like to investigate the possible effects of tobacco on selected oral structures.

Initially, the studies would be limited to the following areas:

1. The effect of tobacco on the oral flora

Long term studies on the ecology of the oral flora are being carried xx out at this institution by Frederick Kraus, M.D., D.M.D. It is proposed to modify his program to include observations on the influence of tobacco on oral xxxx microorganisms.

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2. The effect of tobacco on salivary secretions

Leon Schneyer, D.D.S., Ph.D., of this University is engaged in basic studies on salivary secretions. He has developed physical facilities that can be adapted to the study of the effects of tobacco on salivary gland secretion.

3. The effect of tobacco on the dental plaque of the enamel surface

W. Ward Pigman, Ph.D., of this faculty has made extensive studies of the biochemistry of the dental plaque and the enamel surface as they relate to the etiology of dental caries. Modification of his research program is contemplated to include a study of the aforementioned phenomenon.

4. The effect of tobacco smoking on the oral epithelium

Leonard Robinson, D.M.D., M.D., has made a continuing study of the normal and abnormal histology and biochemistry of tooth supporting tissues. These researches would be expanded to include observations on the effect of tobacco on the oral epithelium.

It should be noted that the proposed cooperative approach has many advangates. The investigators are in close physical proximity to one another and their educational backgrounds complement each other. Common use of controls, standardization of experimental procedures and a multiplicity of clinical observations on the same individuals under comparable clinical conditions anticipated.

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6. Budget Plan:

Two year estimate

Salaries	$20,000
Expendable Supplies	2,000
Permanent Equipment	5,000
Overhead	3,000
Other travel, publication costs	1,000
Total	$31,000

7. Anticipated Duration of Work: It is expected that two years would be needed to complete and evaluate the researches outlined above. Continuation beyond that period would depend on the nature of the findings and require the mutual agreement of the participants and xxxx the sponsor.

8. Facilities and Staff Available:

Dr. Frederick Kraus, Dr. Leonard Robinson, Dr. Ward Pigman and Dr. Leon Schneyer. Each of these persons has a laboratory adequately equipped for routine investigations. Technical assistants trained to carry out routine procedures are attached to each laboratory.

9. Additional Requirements:

It is estimated that the proposed investigation would require the equivalent of two full-time technical assistants and two part-time student assistants. Further expansion of the work would require supplementary funds.

10. Additional Information (Including relation of work to other projects and other sources of supply):

The Medical College of Alabama and School of Dentistry of the University of Alabama sponsor joint basic science departments. The personnal enumerated above have the privilege of consultation with a considerable number of trained investigators in their own f and other specialized fields. There is an adequate source of clinical material available for study. The Dental Clinic of the University Medical Center renders service to more than 30,000 patients per annum. The Medical Center Library makes available adequate bibliographic and reference sources. A preliminary survey of the pertinent literature has been completed.

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Signature /s/ J. F. Volker, D.D.S. Ph.D
Director of Project

/s/ xxxx Joseph P. Lazansky, M.D. D.M.D.

/s/ Harold A. Helms
Business Officer of the Institution

Business Manager

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